The Opportunities and Challenges of the USA's Transition to Electric Vehicles

James Greenberger, Executive Director NAATBatt International October 18, 2022

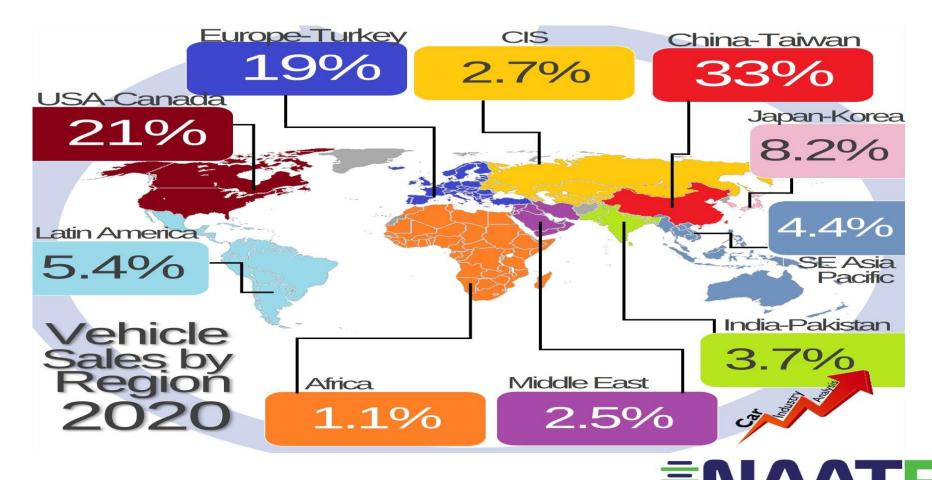


NAATBatt International

- Organized in 2007 to Ensure that Lithium-Ion Batteries Would be Manufactured in the United States
- 250 Corporate and Research Institution Members
- In 2021, the U.S. Department of Energy asked NAATBatt to Co-Lead the Li-Bridge project



The Global Auto Market



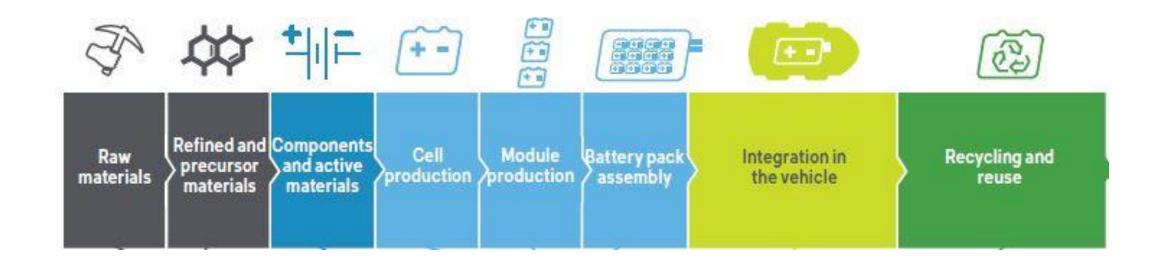
Why is Vehicle Electrification Happening?

- Governmental
 Mandates and
 Incentives
- Consumer Preferences
- Technological Change





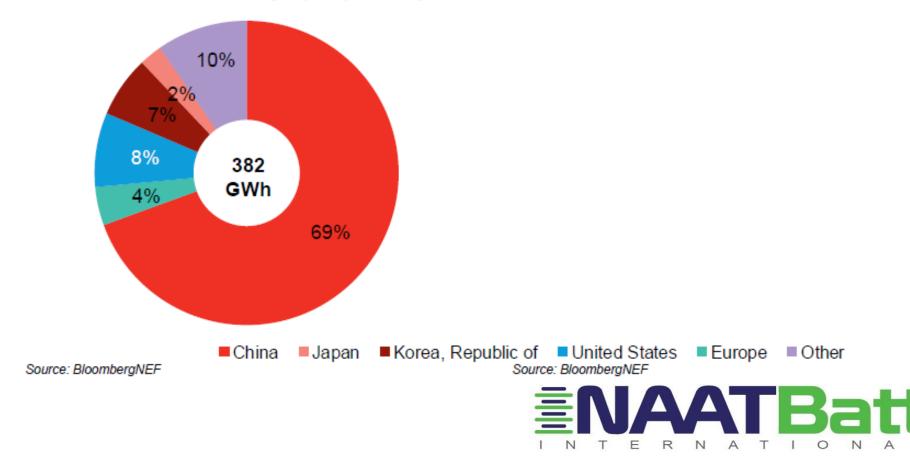
The Lithium-Ion Battery Supply Chain



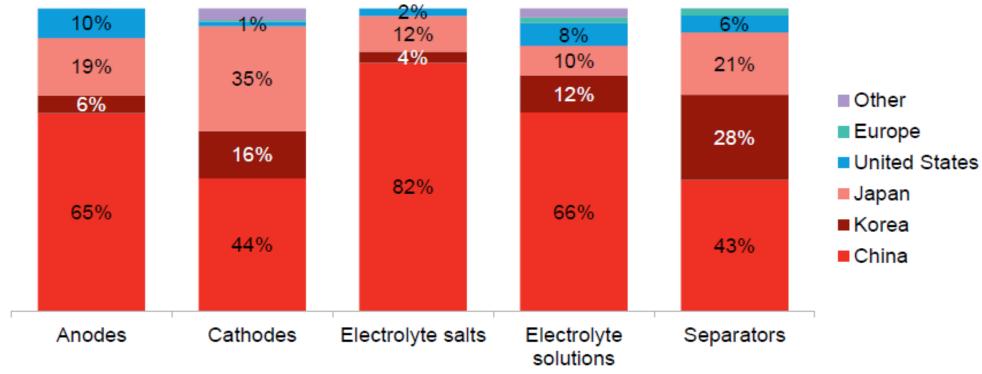


China Dominates the Manufacture of Lithium-Ion Battery Cells

Commissioned manufacturing capacity, January 2020



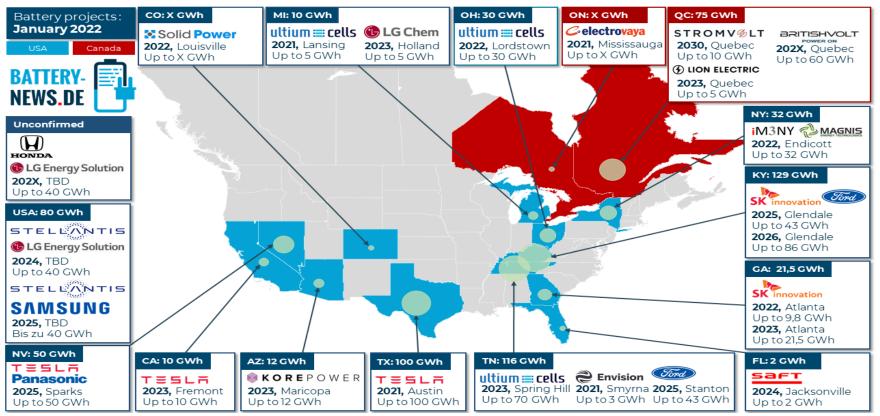
The U.S. is a Minor Player in Battery Component Manufacture



Source: BloombergNEF



The Lithium-Ion Battery Land Rush





What Are They Looking For?

- Power, Water, Gas
- Easy Access to Customers The value of clustering
- A Rational Regulatory Environment
- Access to a Trained Workforce
- Low Carbon Power
- Government Officials Who will be There for Them When the Rubber Hits the Road **ENDATE**

What Do We Want from Them?







What We Should be Asking For

- Localization of Supply Chains
- Tooling and Equipment Acquisition
- Hire U.S. Engineers
- Localization of R&D and Product Development
- Become Part of the Community



Thank You

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